

10/06/10  
09/17/09  
10972 U. S. PRO

ISSUE CLASSIFICATION	
Class	Subclass

**PATENT NUMBER**

## U.S. UTILITY Patent Application

37  
SCANNED *[signature]* O.I.P.E. PATENT DATE  
O.A. TM

APPLICATION NO. 09/771781	CONT/PRIOR F	CLASS 360	SUBCLASS 324.12	ART UNIT 2652	EXAMINER Kelscher
------------------------------	-----------------	--------------	--------------------	------------------	----------------------

## APPLICANTS

Naoya Hasegawa  
Kenji Honda  
Yoshihiko Kakiyama

# THE

Spin-valve thin-film magnetic element and method for making the same

PTO-2048

**ISSUING CLASSIFICATION**

ORIGINAL		CROSS REFERENCE(S)									
CLASS		SUBCLASS	CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)							
INTERNATIONAL CLASSIFICATION											

☐ Continued on Issue Slip inside File Jacket

<input type="checkbox"/> <b>TERMINAL DISCLAIMER</b>	<b>DRAWINGS</b>		<b>CLAIMS ALLOWED</b>	
	Sheets Drwg.	Figs. Drwg.	Print Fig.	Total Claims
<input type="checkbox"/> The term of this patent subsequent to _____ (date) has been disclaimed.	_____ (Assistant Examiner) _____ (Date)		<b>NOTICE OF ALLOWANCE MAILED</b>	
<input type="checkbox"/> The term of this patent shall not extend beyond the expiration date of U.S. Patent. No. _____	_____ (Primary Examiner) _____ (Date)		<b>ISSUE FEE</b>	
			Amount Due	Date Paid
<input type="checkbox"/> The terminal _____ months of this patent have been disclaimed.	_____ (Legal Instruments Examiner) _____ (Date)		<b>ISSUE BATCH NUMBER</b>	

**WARNING:**

The information disclosed herein may be restricted. Unauthorized disclosure may be prohibited by the United States Code Title 35, Sections 122, 181 and 368. Possession outside the U.S. Patent & Trademark Office is restricted to authorized employees and contractors only.

Form **PTO-436A**  
(Rev. 6/99)

FILED WITH: ☐ DISK (CRF) ☐ FICHE ☐ CD-ROM  
(Attached in pocket on right inside flap)

BEST AVAILABLE COPY